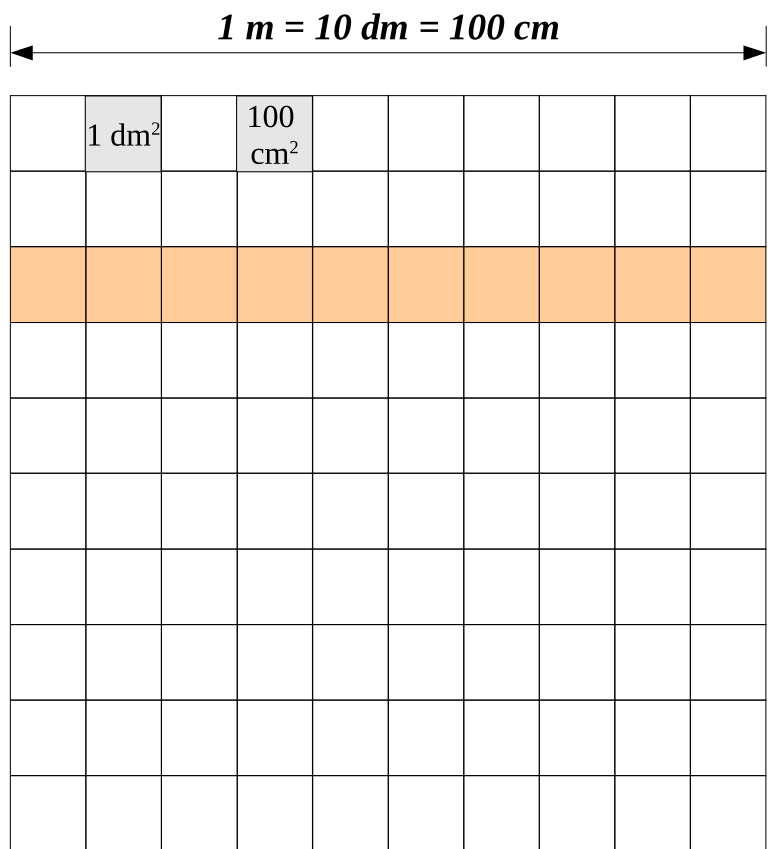


# Lesson 2 HW

## Square Decimeter and Square Meter

$1\text{ m} = 10\text{ dm} = 100\text{ cm}$   
 $1\text{ m}^2 = 100\text{ dm}^2 = 10,000\text{ cm}^2$



### 1 Square meter:

- $2\text{ m}^2 = \underline{\hspace{2cm}}\text{ dm}^2$
- $300\text{ dm}^2 = \underline{\hspace{2cm}}\text{ m}^2$
- $500\text{ dm}^2 = \underline{\hspace{2cm}}\text{ m}^2$
- $7\text{ m}^2 = \underline{\hspace{2cm}}\text{ cm}^2$
- $900\text{ dm}^2 = \underline{\hspace{2cm}}\text{ m}^2$

### 2 Compare:

- |                   |                   |                   |                   |                  |                   |
|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|
| $200\text{ cm}^2$ | $3\text{ dm}^2$   | $500\text{ dm}^2$ | $5\text{ m}^2$    | $30\text{ dm}^2$ | $1\text{ m}^2$    |
| $300\text{ dm}^2$ | $300\text{ m}^2$  | $70\text{ cm}^2$  | $7\text{ dm}^2$   | $20\text{ m}^2$  | $200\text{ cm}^2$ |
| $7\text{ m}^2$    | $700\text{ dm}^2$ | $9\text{ m}^2$    | $900\text{ cm}^2$ | $9\text{ dm}^2$  | $900\text{ cm}^2$ |
| $600\text{ dm}^2$ | $8\text{ m}^2$    | $6\text{ dm}^2$   | $80\text{ cm}^2$  | $4\text{ m}^2$   | $400\text{ cm}^2$ |

### 3 Convert:

- |   |   |   |
|---|---|---|
| $400\text{ cm} = \underline{\hspace{2cm}}\text{ dm}$    | $400\text{ cm}^2 = \underline{\hspace{2cm}}\text{ dm}^2$                                | $400\text{ cm} = \underline{\hspace{2cm}}\text{ m}$     |
| $700\text{ dm}^2 = \underline{\hspace{2cm}}\text{ m}^2$ | $2\text{ m} = \underline{\hspace{2cm}}\text{ cm} = \underline{\hspace{2cm}}\text{ dm}$  | $6\text{ m}^2 = \underline{\hspace{2cm}}\text{ dm}^2$   |
| $2\text{ dm}^2 = \underline{\hspace{2cm}}\text{ cm}^2$  | $50\text{ dm} = \underline{\hspace{2cm}}\text{ cm} = \underline{\hspace{2cm}}\text{ m}$ | $800\text{ dm}^2 = \underline{\hspace{2cm}}\text{ m}^2$ |

4

## Mixed Word Problems

A basket contains 5 oranges. Another basket contains  $x$  oranges. How many oranges are in both baskets?

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Each box contains 12 pencils. How many pencils are in  $x$  such boxes?

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A can contains 5 cookies. Another can contains  $x$  more cookies than the first one. How many cookies are in both cans?

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A bicycle moves 20 km each hour. How far will it move in  $q$  hours?

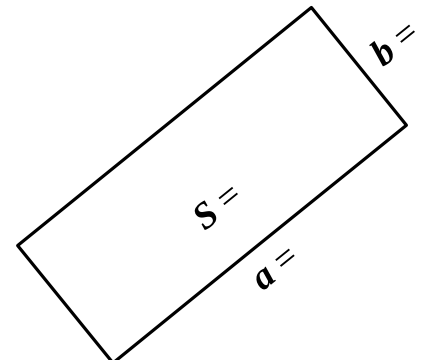
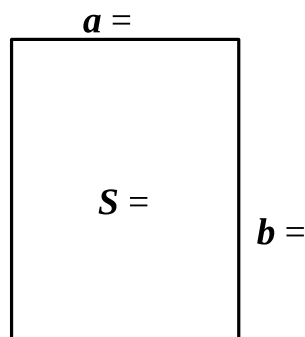
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Grandma puts jam into 4 liter bottles. How many bottles of jam did she fill if she ended up with  $y$  liters?

---



5 Measure the rectangles and find their areas:



## Equations

- 6** In your notebook solve the equations below. Use diagrams to help you if you want.

$$27 - x = 18$$

$$y + 300 = 800$$

$$z - 312 = 188$$

**7**

## Expressions and Programs:

- Determine the order of operations in the expressions below.
- In your notebook write programs to compute the values of these expressions.
- Show how each step transforms the original expression like in the provided sample.

a).  $y \times 4 - 5$

b).  $z - x \div t + 1$

c).  $(z - x) \div t + 1$

**Sample:**

1:  $15 - x$

2:  $a + \textcircled{1}$

3:  $\textcircled{2} + 12$

$$\textcircled{2} \quad \textcircled{1} \quad \textcircled{3}$$

$$a + (15 - x) + 12$$

$$\underline{a + \textcircled{1} + 12}$$

$$\underline{\textcircled{2} + 12}$$

$$\underline{\textcircled{3}}$$

- 8** Complete four equations using addition and subtraction.

$$16 + 24 = 40$$

$$27 + 5 =$$

$$24 + =$$

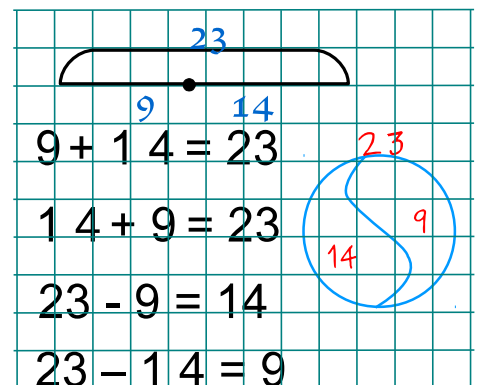
$$+ =$$

$$40 - 24 =$$

$$- =$$

$$40 - =$$

$$- =$$



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## Replacements:

- Use replacement to simplify the following equations.
- Write the transformed equations according to the sample.

$$x:5 - 2 = 3$$

$$y = x:5$$

$$y - 2 = 3$$

$$27 - p \cdot 2 = 9$$

$$z = p \cdot 2$$

$$x:3 + 2 = 6$$

$$q =$$

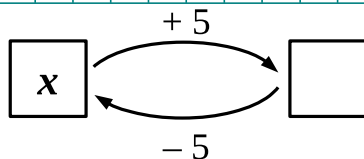
$$24:w + 4 = 8$$

## Equations and operations:

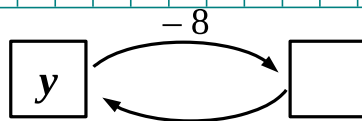
10

Use the diagrams below to solve the following equations:

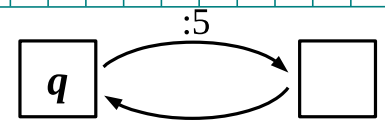
$x + 5 = 15$			
$x =$			
$x =$			



$y - 8 = 7$			
$y =$			
$y =$			



$q : 5 = 7$			



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Calculate:

$$8 \times 7 \div 7 =$$

$$9 \times 7 \div 7 =$$

$$w \times 7 \div 7 =$$

$$25 \div 5 \times 5 =$$

$$35 \div 5 \times 5 =$$

$$x \div 5 \times 5 =$$

12

Calculate:

	•	10	10	
	6	14		
-	3	29		

	•	9	10	
	4	07		
-	3	09		

	5	02		
+	2	35		

	1			
	7	00		
+	5	21		